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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION OF)
Donald G. Panuce)
SERIAL NO.: 08/603,657)
FILED: February 20, 1995)
FOR: INVERTER BYPASS SAFETY SWITCH)

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MAY 31 1996

Group A
Examiner: GROUP 2100

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INFORMATION DISCLOSURE STATEMENT

Sir:

Submitted herewith on Form PTO-1449 is a listing of
references known to applicant and/or his attorney in compliance
with the requirements of 37 C.F.R. 1.56. Copies of the documents
are also being submitted.

The following is a disclosure of certain references in
accordance with 37 C.F.R. Section 1.97 for consideration by the
Patent and Trademark Office in connection with the above-
identified application:

<u>U.S. Patent No.</u>	<u>Inventor(s)</u>	<u>Issue Date</u>
2,326,070	Schaelchlin et al.	08/03/43
3,614,461	Speer et al.	10/19/71
3,753,069	Newton	08/14/73
4,157,461	Wiktor	06/05/79
4,295,054	Kovatch et al.	10/13/81

4,371,820	Kruger	02/01/83
4,398,097	Schell et al.	08/09/83
4,423,336	Iverson et al.	12/27/83
4,760,278	Thomson	07/26/88
4,937,403	Minoura et al.	06/26/90
5,023,469	Bassett et al.	06/11/91
5,048,366	Spanio	09/17/91
5,075,517	Spanio	12/24/91
5,081,367	Smith et al.	01/14/92
5,200,586	Smith et al.	04/06/93
5,278,369	Spanio	01/11/94

Publication

Author

Date

--none--

Concise Explanation of the Relevance
Of the Above-Cited References

Schaelchlin et al. Patent No. 2,326,070 describes an automatic bus transfer system using coils 44, 11, relays 1, 8, and contact members 42 to achieve its switching purpose. The present invention uses no coils, relays or contactors to perform the switching function. Instead, the present invention uses cams keyed to a central metal shaft manually operated by an externally mounted operator handle.

Speer Patent No. 3,614,461 describes a circuit for synchronizing an inverter and a second source. Speer does not disclose cams keyed to a central shaft for switching power away from an inverter.

Newton Patent No. 3,753,069 describes a circuit for temporarily bypassing an inverter during startup of an electric motor. Newton does not disclose cams keyed to a central shaft for switching power away from an inverter. Rather, Newton uses a set of contacts 20 coupled to the motor to switch the current to and away from the inverter.

Wiktor Patent No. 4,157,461 describes a three phase transfer switch and bypass switch. The system uses knife switches to switch power, with the bypass switch as a separate, plug-in unit.

Kovatch et al. Patent No. 4,295,054 describes an electric control system for transferring power from one normal supply source to another emergency supply source using a camming structure. The camming structure comprises molded gears 99, 101, etc. and molded cams 109, 11 etc. slidably mounted on cam rods 115. The gears are turned by a hand wheel 119. Kovatch does not disclose cams mounted on a single shaft, or cam operated contacts.

Kruger Patent No. 4,371,820 describes a transfer switch designed to automatically switch between two power sources should one of the power sources fail. The switch requires external electrical devices, such as relays, transformers, motors, or other power consuming devices, in order to function.

Schell et al. Patent No. 4,398,097 describes an automatic transfer switch comprising a pair of molded case switches 31, 31' and a cam drive mechanism to achieve load transfer between normal and emergency power sources. Schell does not disclose power

contacts operatively engaged by cams, as is required by the present invention.

Iverson et al. Patent No. 4,423,336 describes an automatic transfer switch and bypass switch assembly. The switch requires extensive control circuits, relays, contactors, coils and solenoids to operate.

Thompson Patent No. 4,760,278 describes a transfer switch designed to switch between two power sources. The switch accomplishes the switching action using levers and arms to activate molded case circuit breakers.

Minoura et al. Patent No. 4,937,403 describes a switching device designed to connect a first or second power source to an output.

Bassett et al. Patent No. 5,023,469 describes an interlock transfer and bypass switch operated by a cam means. Bassett does not disclose power contacts operatively engaged by cams.

Spanio Patent No. 5,048,366 describes a modular camshaft having at least two modules coupled together, for use in an electrical switch.

Spanio Patent No. 5,075,517 describes a cam operated switch having a generally flat contact element operated 7 upon by a slider 19. The slider cooperates with a cam 14.

Smith et al. Patent No. 5,081,367 describes an electrical power system for mechanically switching power to a load when the normal source of power is interrupted due to power failure or for maintenance. The system comprises a maintenance bypass switch

(Fig. 4) including a pair of circuit breakers 39, 41 having operating handles 43, 45 operatively engaged to a lever arm 67 operated by a motor 73. Smith et al. does not disclose power contacts operatively engaged by cams.

Smith et al. Patent No. 5,200,586 describes a bypass switch mechanism comprised of at least three circuit interruption devices. Each circuit interruption device has switch gears, a drive gear, a handle and a cam engaging the handle. The Smith '586 patent does not disclose power contacts operatively engaged by cams.

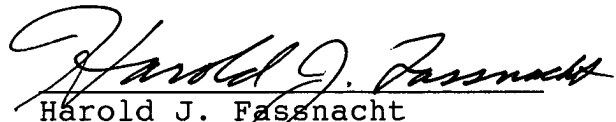
Spanio Patent No. 5,278,369 describes an electrical switch having a contact-holding slider provided with recesses which open into two opposing faces, and contact elements which move against springs to cooperate with fixed contacts.

* * * * *

Applicant believes that none of the references or embodiments submitted herewith, alone or in proper combination, discloses or suggests the invention claimed by applicant in the present invention. The applicant seeks to have these references available in the record for both the Examiner and the public to see.

Applicant specifically reserves all rights of privilege and confidentiality with respect to the application. Submission of this document is not to be construed as a waiver of these rights. Submission of patents is without admission that any has an effective date prior to applicant's effective date of invention.

Respectfully submitted,


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